



April 12, 2005

Mr. Hugh Murphy
City of Hayward Fire Department
777 B Street
Hayward, California

**Re: Well Destruction Report
Former ARCO Service Station #0362
29900 Mission Boulevard
Hayward, California**

Dear Mr. Murphy:

At the request of Atlantic Richfield Company, Remediation Management (RM- a BP affiliated company), URS Corporation (URS) has prepared this *Well Destruction Report* for the ARCO Service Station #0362 located at 29900 Mission Boulevard, Hayward, California (the Site, Figure 1). The scope of work consisted of destroying eight groundwater monitoring wells (MW-2 through MW-5 and MW-8 through MW-11) eight vapor wells (VW-4 though VW-11), and one extraction well (EW-1) by pressure grout methods. Well locations are shown on Figure 1 and a summary of well construction and destruction details is presented in Table 1.

Site Description

The Site is an active gasoline retailer and service station with four 10,000-gallon, double-walled fiberglass gasoline underground storage tanks (USTs), a 500-gallon underground waste-oil tank, one service island, and a station building. The Site is located at an elevation of approximately 45 feet above mean sea level on the eastern margin of the San Francisco Bay Plain, a relatively flat, gently sloping surface formed by coalescing alluvial fans deposited by streams draining the Diablo Range. The Site is underlain by unconsolidated sediments ranging from silt and clay to sand and gravel. Depth to bedrock beneath the Site is unknown. Detailed information on Site geology is available in the report *Additional Subsurface Investigation at ARCO 362* (RESNA 1993).

Groundwater beneath the Site is generally unconfined; however, during periods of high water it can become semi-confined. Depth to water has ranged from 21 to 33 feet below ground surface (bgs). Seasonal variations in groundwater elevation are relatively large, as much as five to seven feet.

Quarterly monitoring from the Site has also shown that the gradient and flow direction are relatively constant, with gradients between 0.003 and 0.004 feet per foot to the west or west-southwest.

Mr. Murphy
April 12, 2005
Page 2 of 3

Well Destruction Activities

URS personnel oversaw a California licensed-driller destroy eight groundwater monitoring wells (MW-2 through MW-5 and MW-8 through MW-11) eight vapor wells (VW-4 though VW-11), and one extraction well (EW-1) by pressure grout methods on March 7 and 10, 2005.

Personnel Present:	Kevin Uno, URS Geologist; Rachel Lindvall, URS Geologist.
Permits:	Alameda County Public Works (ACPW) Well Destruction Permits: W05-0085 (MW-8); W05-0086 through W05-0089 (MW-2 through MW-5, respectively); W05-0090 through W05-0092 (MW-9 through MW-11, respectively); W05-0093 through W05-0100 (VW-4 through VW-11, respectively); W05-0101 (EW-1). Copies of permits are included in Attachment A.
Drilling Company:	Gregg Drilling and Testing of Martinez, California (C-57 License # 485185)
Fieldwork Dates:	March 7 and 10, 2005
Number of Wells:	Seventeen
Destruction Method:	All wells were pressure grouted using a neat cement mixture according to ACPW well destruction guidelines. Wells were grouted from the bottom of the well to the ground surface with 25 pounds per square inch of pressure applied by compressed air. Copies of the Department of Water Resources (DWR) well completion reports are included in Attachment B.
Well Construction and Destruction Details:	A summary of the well construction and destruction details is presented in Table 1.
Soil and Water Handling:	No soil or groundwater were generated during well destruction activities

Mr. Murphy
April 12, 2005
Page 3 of 3

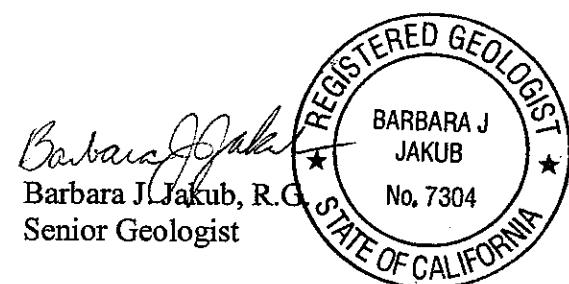
We appreciate the opportunity to present this Well Destruction Report to the City of Hayward Fire Department on behalf of RM and trust that this document meets with your approval. Please do not hesitate to contact us at (510) 893-3600 with any questions or comments.

Sincerely,

URS CORPORATION



Scott Robinson
Project Manager



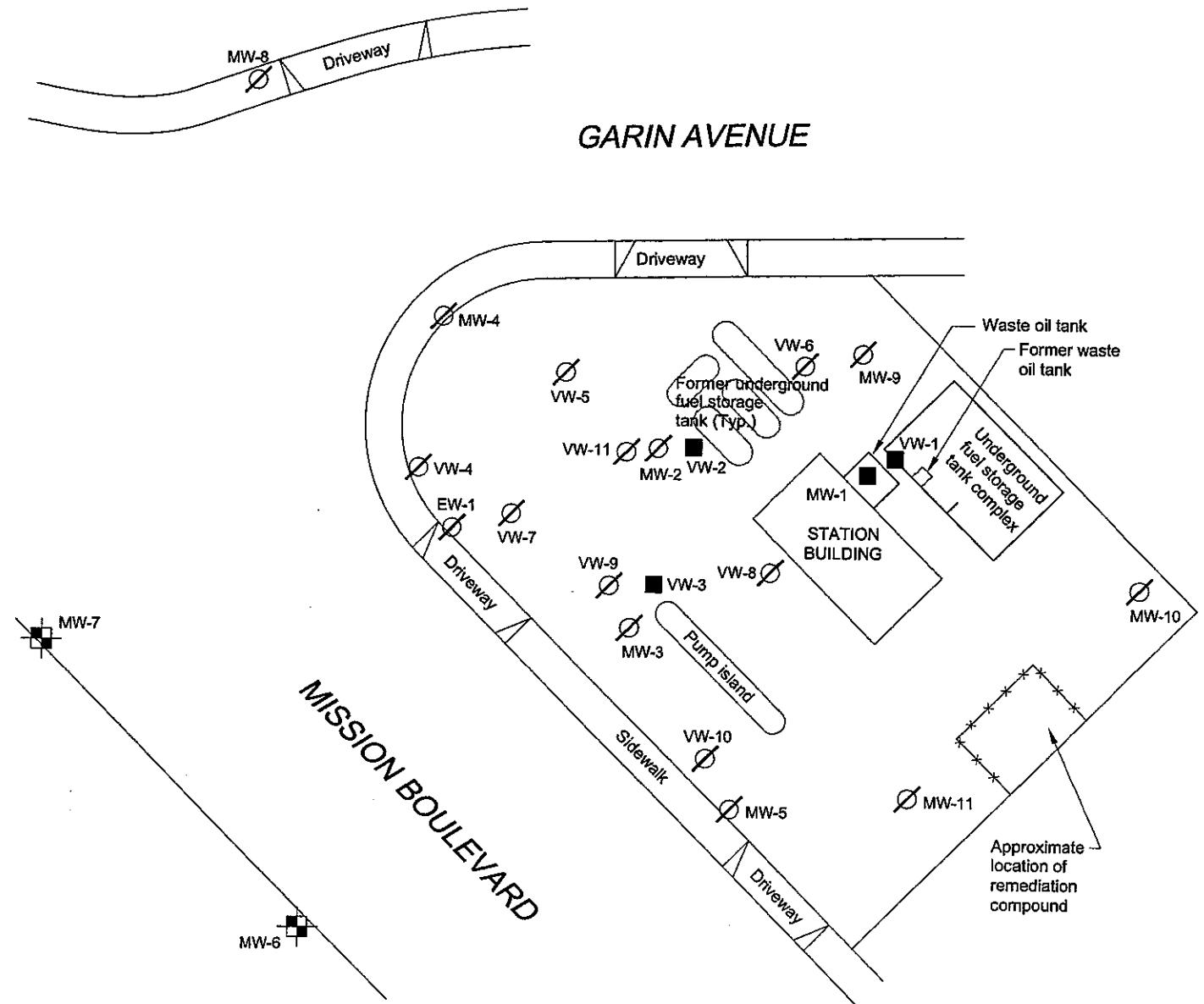
Attachments:

- | | |
|--------------|--|
| Figure 1 | Site Map |
| Table 1 | Well Construction and Destruction Details |
| Attachment A | ACPW Well Destruction Permits |
| Attachment B | DWR Well Completion Reports (original copies submitted separately to ACPW) |

References:

- RESNA, 1993. "Additional Subsurface Investigation at ARCO Station 362, 29900 Mission Boulevard, Hayward, California." RESNA Industries, October 1, 1993.

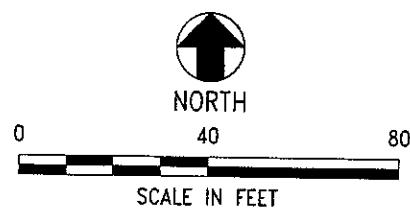
cc: Mr. Paul Supple, Atlantic Richfield Company (RM), (electronic copy uploaded to ENFOS)



LEGEND

- ∅ DESTROYED WELL (MARCH 2005)
- DESTROYED MONITORING WELL (DECEMBER 1992)
- ☒ WELL PAVED OVER

NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES.
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



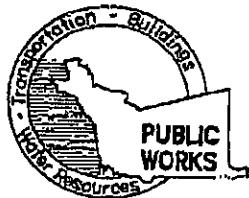
URS	Project No. 38487311	SITE MAP	FIGURE 1
	ARCO Service Station #0362 29900 Mission Boulevard Hayward, California		

Table 1.
Well Construction and Destruction Details
ARCO Site #0362
29900 Mission Blvd.
Hayward, California

No.	Well ID	Well type	Borehole Diameter (inches)	Well Diameter (inches)	Length of screened interval (feet)	Depth to bottom of well (feet bgs)	Well Destruction Method
1	MW-2	Monitoring	8	2	15	40	Pressure grout
2	MW-3	Monitoring	8	2	15	40	Pressure grout
3	MW-4	Monitoring	10	4	8	36	Pressure grout
4	MW-5	Monitoring	10	4	13.5	37.5	Pressure grout
5	MW-8	Monitoring	10	4	15.5	43.5	Pressure grout
6	MW-9	Monitoring	10	4	10	39	Pressure grout
7	MW-10	Monitoring	10	4	12	38	Pressure grout
8	MW-11	Monitoring	10	4	10	31	Pressure grout
9	VW-4	Vapor Extraction	10	4	19.5	27.5	Pressure grout
10	VW-5	Vapor Extraction	10	4	14	29	Pressure grout
11	VW-6	Vapor Extraction	10	4	16	29	Pressure grout
12	VW-7	Vapor Extraction	10	4	15	27	Pressure grout
13	VW-8	Vapor Extraction	10	4	20	28	Pressure grout
14	VW-9	Vapor Extraction	10	4	20.5	28.5	Pressure grout
15	VW-10	Vapor Extraction	10	4	18.5	26.5	Pressure grout
16	VW-11	Vapor Extraction	10	4	14	29	Pressure grout
17	EW-1	Groundwater Extraction	12	6	10	35	Pressure grout

ATTACHMENT A

ACPW Well Destruction Permits



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94541-1395

PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATIONwww.acpwed.org

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
29900 MISSION AVE.
MARINER, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6549 Phone 925-299-8872
City MORRIS, CA Zip 94570

APPLICANT
Name URS c/o KEVIN UNO
Fax 510-874-3768
Address 133 BROADWAY STE 800 Phone 510-874-3729
City OAKLAND, Zip 94612

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other PRESSURE GRANIT

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter 8-1/2 in. Maximum MW-8
Casing Diameter 2-1/2 in. Depth VAR ft.
Surface Soil Depth VAR ft. Owner's Well Number SEE ATTACHED

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Kevin Uno DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

FOR OFFICE USE

PERMIT NUMBER W05-0085
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

- 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
- 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
- 3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

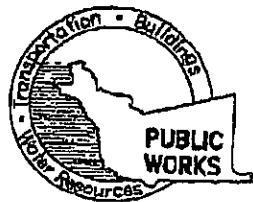
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

-50ft
NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE 2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94541-1395

PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

www.acpwed.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
29900 MISSION AVE.
HAYWARD, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6599 Phone 925-299-8872
City MORAGA, CA Zip 94570

APPLICANT
Name URS c/o KEVIN UNO
Fax 510-874-3768
Address 1333 BROADWAY STE 800 Phone 510-874-3739
City OAKLAND, Zip 94612

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input checked="" type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GROUT	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter 8-12" in. Maximum MW-2
Casing Diameter 2-6" in. Depth V.A.R. ft.
Surface Seal Depth V.A.R. ft. Owner's Well Number SEE ATTACHED

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE K. UNO DATE 1/26/05

PLEASE PRINT NAME KEVIN UNO

Rev.5-11-04

FOR OFFICE USE

PERMIT NUMBER W05-0086
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three foot replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

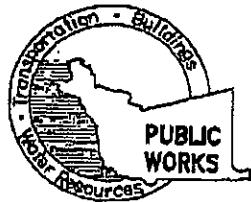
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

www.acfwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
29900 MISSION AVE.
HAYWARD, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 63799 Phone 510-299-8772
City MORRISON, CA Zip 94570

APPLICANT
Name URS c/o KEVIN UNO
Fax 510-874-3228
Address 1333 BROADWAY STE 800 Phone 510-874-3229
City OAKLAND Zip 94612

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GROUT	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter	<u>8-1/2</u> in.	Maximum	<u>MW-3</u>
Casing Diameter	<u>2-1/2</u> in.	Depth	<u>VAR</u> ft.
Surface Seal Depth	<u>VAR</u> ft.	Owner's Well Number	<u>SEE ATTACHED</u>

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings	<u>1</u>	Maximum	
Hole Diameter	<u>8-1/2</u> in.	Depth	<u>100</u> ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-6B.

APPLICANT'S SIGNATURE Kevin Uno DATE 1/26/05PLEASE PRINT NAME KEVIN UNO Rev. 5-11-04

FOR OFFICE USE

PERMIT NUMBER WOS-C087
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds foot replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

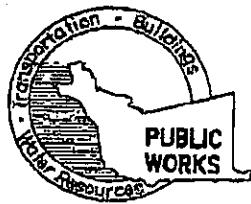
F. WELL DESTRUCTION PGH

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature]DATE 2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATIONwww.acfwci.org

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
2990 MISSION AVE.
HAYWARD, CACLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6599 Phone 925-299-8872
City MORAGA, CA Zip 94570APPLICANT
Name VRS c/o KEVIN UNO
Fax 510-874-3268
Address 1333 BROADWAY STE 800 Phone 510-874-3279
City OAKLAND Zip 94612

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GRANIT	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter 8-1/2 in. Maximum Depth 100 ft
 Casing Diameter 2-1/2 in. Depth Var ft.
 Surface Seal Depth Var ft. Owner's Well Number SEE ATTACHED

MW-4

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
 Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE K. UNO DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

Rev.5-11-04

FOR OFFICE USE

PERMIT NUMBER W05-0088
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
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INCLUDING PIEZOMETERS

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E. CATHODIC

Fill halo anode zone with concrete placed by tremie.

F. WELL DESTRUCTION — PG#1
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

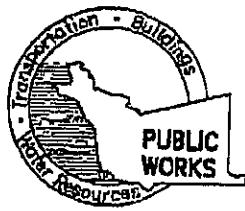
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APPROVED

DATE

22-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94541-1395
PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

APPLICANT: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

www.acfwcd.org

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Arco #362
2990 MISSION AVE.
HAYWARD, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6599 Phone 925-299-8872
City MORNING, CA Zip 94570

APPLICANT
Name DRS c/o KEVIN UNO
Address 1333 BROADWAY STE 800 Phone 510-874-3768
City ORLANDO Zip 94612

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other PRESSURE GROUT

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter 8-12 in. Maximum MWS
Casing Diameter 2-6 in. Depth VAR ft.
Surface Soil Depth VAR ft. Owner's Well Number SEE ATTACHED

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE K. UNO DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

FOR OFFICE USE

PERMIT NUMBER WOS-0089
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

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E. CATHODIC

Fill bore hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION — PG#1

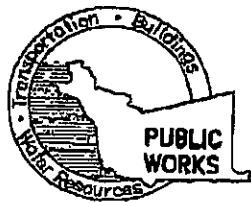
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G. SPECIAL CONDITIONS

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APPROVED

2-26-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94541-1395

PHONE (510) 678-6633 James Yoo

FAX (510) 782-1939

www.acfwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #36229900 MISSION AVE.
HAYWARD, CACLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6599 Phone 915-299-8872
City MORRIS, CA Zip 94570APPLICANT
Name VRS c/o KEVIN UNO
Fax 510-824-3268
Address 1333 BROADWAY STE 800 Phone 510-824-3229
City OAKLAND, Zip 94612

TYPE OF PROJECT

Well Construction	<input checked="" type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GROUT	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter	<u>8-12</u>	in.	Maximum	<u>MWG</u>
Casing Diameter	<u>2-6</u>	in.	Depth	<u>VAR</u> ft.
Surface Seal Depth	<u>VAR</u>	ft.	Owner's Well Number	<u>SEE ATTACHED</u>

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings	<u>1</u>	Maximum	<u>100'</u>
Hole Diameter	<u>4"</u>	Depth	<u>100'</u>

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE K. UNO DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

Rev. 5-11-04

FOR OFFICE USE

PERMIT NUMBER W05-0090
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

- 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
- 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
- 3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds foot replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION PG#1

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

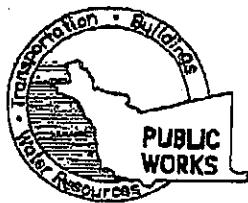
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

www.acfwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
29900 MISSION AVE.
HAYWARD, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6549 Phone 925-299-8872
City MARINA, CA Zip 94570

APPLICANT
Name JKS c/o KEVIN LIND
Fax 510-824-3768
Address 1333 BROADWAY STE 800 Phone 510-824-3729
City OAKLAND, Zip 94612

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other PRESSURE GROUT

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter 8-10 in. Maximum ML10
Casing Diameter 2-6 in. Depth VAR ft.
Surface Seal Depth VAR ft. Owner's Well Number SEE ATTACHED

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE KL DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

FOR OFFICE USE

PERMIT NUMBER W05-0091
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION P6#1

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

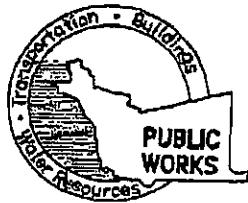
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94541-1395

PHONE (510) 670-6633 James Yee

FAX (510) 782-1939

www.acfwcd.orgAPPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
2990 MISSION AVE.
HAYWARD, CACLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6539 Phone 925-299-8872
City MORADA, CA Zip 94570APPLICANT
Name DRS c/o KEVIN UNO
Address 1333 BROADWAY STE 800 Phone 510-874-3763
City OAKLAND Zip 94612

TYPE OF PROJECT

Well Construction Geotechnical Investigation
 Cathodic Protection General
 Water Supply Contamination
 Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic <input type="checkbox"/>	Replacement Domestic <input type="checkbox"/>
Municipal <input type="checkbox"/>	Irrigation <input type="checkbox"/>
Industrial <input type="checkbox"/>	Other <input type="checkbox"/>

DRILLING METHOD:

Mud Rotary <input type="checkbox"/>	Air Rotary <input type="checkbox"/>	Auger <input type="checkbox"/>
Cable <input type="checkbox"/>	Other <input checked="" type="checkbox"/>	PRESSURE GRANIT <input type="checkbox"/>

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485765

WELL PROJECTS

Drill Hole Diameter <u>8-1/2</u> in.	Maximum Depth <u>VAR</u> ft.	<u>MW-11</u>
Casing Diameter <u>2-1/2</u> in.	Owner's Well Number <u>SEE ATTACHED</u>	
Surface Seal Depth <u>VAR</u> ft.		

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____	Maximum Hole Diameter _____ in.
Hole Diameter _____ in.	Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Kevin Uno DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

Rev. 5-11-04

FOR OFFICE USE

PERMIT NUMBER W05-0092
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

- 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
- 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
- 3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds foot replaced in kind or with compacted cuttings.

E. CATHODIC

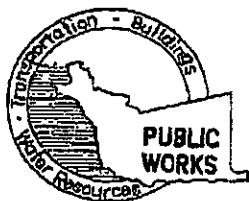
Fill hole shade zone with concrete placed by tremie.

F. WELL DESTRUCTION — PG#1
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED JKDATE 2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6033 James Yoo

FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATIONwww.acfwcd.org

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
2990 MISSION AVE.
HAYWARD, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6599 Phone 925-299-8872
City MORNEA, CA Zip 94570

APPLICANT
Name URS c/o KEVIN UNO
Phone 510-874-3768
Address 1333 BROADWAY STE 800 Phone 510-874-3779
City OAKLAND, Zip 94612

TYPE OF PROJECT

Well Construction
Cathodic Protection
Water Supply
Monitoring

Geotechnical Investigation
General
Contamination
Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other PRESSURE GROUT

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter 8-12 in. Maximum VAR
Casing Diameter 2-6 in. Depth VAR ft.
Surface Seal Depth VAR ft. Owner's Well Number SEE ATTACHED VW-4

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE KUNO DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

Rev.S-1-04

FOR OFFICE USE

PERMIT NUMBER WAS-0093
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

- 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
- 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
- 3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION 4647

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

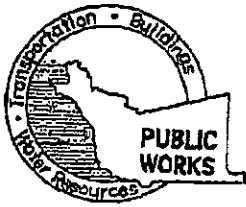
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ULMHEURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-6633 Juines Yoo

FAX (510) 782-1939

www.acfwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Arco #362
2999 MISSION AVE.
HAYWARD, CA

FOR OFFICE USE

PERMIT NUMBER W05-0094
WELL NUMBER _____
APN _____CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 62749 Phone 925-299-8872
City MORNING, CA Zip 94570APPLICANT
Name DPS c/o KEVIN UNO
Fax 510-874-3768
Address 1333 BROADWAY STE 800 Phone 510-874-3729
City OAKLAND Zip 94612

TYPE OF PROJECT

Well Conditioning	<input checked="" type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GROUT	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter 8-1/2 in. Maximum VW-5
 Casing Diameter 2-1/2 in. Depth VAR ft.
 Surface Seal Depth VAR ft. Owner's Well Number SEE ATTACHED

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
 Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

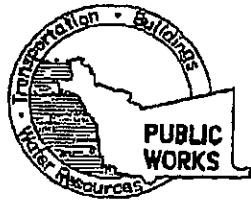
APPLICANT'S SIGNATURE K. UNOPLEASE PRINT NAME KEVIN UNODATE 1/26/05

Rev. S-11-04

APPROVED

DATE

2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yee

FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATIONwww.acfwcd.org

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
29900 MISSION AVE.
MAYWOOD, CACLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address P.O. BOX 65499 Phone 415-299-8672
City MOSCOW, CA Zip 94570APPLICANT
Name URS c/o KEVIN UNO
Address 1333 BROADWAY STE B20 Phone 510-874-3239
City OAKLAND Zip 94612

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GRANET	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485765

WELL PROJECTS

Drill Hole Diameter	<u>8-12</u>	in.	Maximum	
Casing Diameter	<u>2-6</u>	in.	Depth	<u>VAR</u> ft.
Surface Seal Depth	<u>VAR</u>	ft.	Owner's Well Number	<u>SEE ATTACHED</u>

UV-6

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Boreholes	<u>1</u>	Maximum	
Hole Diameter	<u>4-6</u>	Depth	<u>VAR</u> ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE KUNO DATE 1/26/05PLEASE PRINT NAME KEVIN UNO Rev.5-11-04

FOR OFFICE USE

PERMIT NUMBER WQ5-0095
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

- 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
- 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
- 3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS

INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

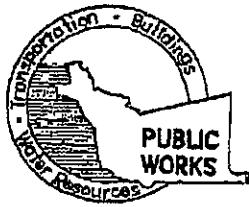
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94541-1395
PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATIONwww.acfwcd.org

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
29900 MISSION AVE.
MATILJA, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 65799 Phone 510-299-8872
City MORADA, CA Zip 94570

APPLICANT
Name URS c/o KEVIN UNO
Fax 510-874-3268
Address 1333 BROADWAY STE 800 Phone 510-874-3729
City OAKLAND Zip 94612

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GRANIT	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS.

Drill Hole Diameter	<u>8-1/2</u>	in.	Maximum	<u>V/W-7</u>
Casing Diameter	<u>2-6</u>	in.	Depth	<u>VAR</u> ft.
Surface Seal Depth	<u>VAR</u>	ft.	Owner's Well Number	<u>SEE ATTACHED</u>

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings	<u>1</u>	Maximum	<u>800 ft.</u>
Hole Diameter	<u>4-1/2</u>	Depth	<u>800 ft.</u>

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE K. UNO DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

Rev. 5-11-04

FOR OFFICE USE

PERMIT NUMBER W05-0096
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

- 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
- 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
- 3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specifically approved.

C. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION -PGH-
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

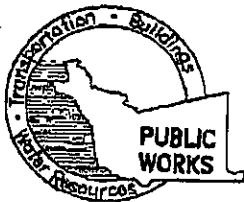
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or wall destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94541-3395
PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

www.acfwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
299 1/2 MISSION AVE.
HAYWARD, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6549 Phone 925-299-8872
City MORNING, CA Zip 94570

APPLICANT
Name JRS c/o KEVIN UNO
Address 1333 BROADWAY STE 800 Phone 510-874-3268
City OAKLAND Zip 94612

TYPE OF PROJECT

Well Construction	<input checked="" type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GROUT	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485765

WELL PROJECTS

Drill Hole Diameter 3-12 in. Maximum Depth VAR ft.
Casing Diameter 2-6 in. Owner's Well Number SEE ATTACHED
Surface Seal Depth VAR ft. *VW-8*

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum Depth _____ ft.
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Kevin Uno DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

Rev.5-11-04

FOR OFFICE USE

PERMIT NUMBER W05-0097
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

C. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

D. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

E. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

F. GEOTECHNICAL/CONTAMINATION

Baffle fill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds feet replaced in kind or with compacted cuttings.

G. CATHODIC

Pill hole electrode zones with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

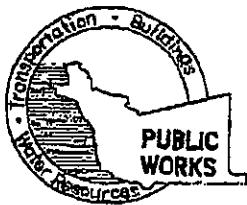
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATIONwww.acfwed.org

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Arco #362
29900 MISSION AVE.
MATILJA, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address P.O. BOX 6599 Phone 925-299-8872
City MORRISON, CA Zip 94570

APPLICANT
Name URS c/o KEVIN UNO
Fax 510-874-3748
Address 1333 BROADWAY STE 800 Phone 510-874-3729
City OAKLAND, Zip 94612

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Desaturation

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other PRESSURE GRANIT

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter 8-12 in. Maximum VW-9
Casing Diameter 2-6 in. Depth VAR ft.
Surface Seal Depth VAR ft. Owner's Well Number SEE ATTACHED

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE: MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE K. Uno DATE 1/26/05PLEASE PRINT NAME KEVIN UNO Rev.S-11-04

FOR OFFICE USE

PERMIT NUMBER W05-0098
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds foot replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

E. WELL DESTRUCTION P.G.H.
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

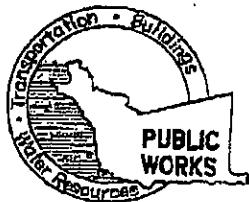
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

7-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-3395

PHONE (510) 678-6633 James Von

FAX (510) 782-1939

www.acfwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Arco #362
29900 MISSION AVE.
HAYWARD, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6549 Phone 510-925-2944-8872
City MORRISON, CA Zip 94570

APPLICANT
Name DPS c/o KEVIN UNO
Address 1333 BROADWAY STE 100 Phone 510-974-3723
City OAKLAND Zip 94612

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GRouting	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485765

WELL PROJECTS

Drill Hole Diameter 8-12 in. Maximum VW-10
Casing Diameter 2-6 in. Depth VAR ft.
Surface Seal Depth VAR ft. Owner's Well Number SEE ATTACHED

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE K. Uno DATE 1/26/05PLEASE PRINT NAME KEVIN UNO Rev. 5-11-04

FOR OFFICE USE

PERMIT NUMBER W05-0099
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

- 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
- 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
- 3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Bulkfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION Y/N
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

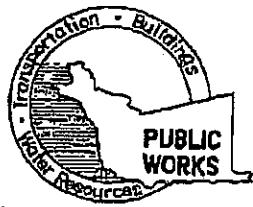
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

2-7-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yee

FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATIONwww.acfwed.org

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Arco #362
29900 MISSION AVE.
HAYWARD, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address PO BOX 6599 Phone 925-299-8872
City MORNING, CA Zip 94570

APPLICANT
Name DRS c/o KEVIN UNO
Fax 510-874-3728
Address 1333 BROADWAY STE 900 Phone 510-874-3729
City OAKLAND, Zip 94612

TYPE OF PROJECT

Well Construction	<u>Geotechnical Investigation</u>		
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GRANIT	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter 8-12 in. Maximum Depth VAR ft.
Casing Diameter 2-6 in. Owner's Well Number SW-11
Surface Seal Depth VAR ft.

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE KUNO DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

Rev.5-11-04

FOR OFFICE USE

PERMIT NUMBER WOS-0100
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds feet replaced in kind or with composted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION — PGK

Send a map of work site. A separate permit is required

for wells deeper than 45 feet.

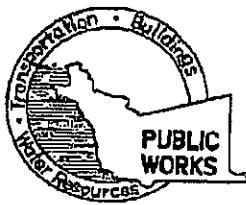
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

2-2-05



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

www.acfwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT ARCO #362
29900 MISSION AVE.
MOUNTAIN View, CA

CLIENT
Name BP/ARCO c/o PAUL SUPPLE
Address P.O. BOX 65799 Phone 925-299-8872
City MOUNTAIN View, CA Zip 94570

APPLICANT
Name URS c/o KEVIN UNO
Fax 510-874-3268
Address 1333 BROADWAY STE 800 Phone 510-874-3239
City OAKLAND Zip 94612

TYPE OF PROJECT

Well Construction	<input checked="" type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	PRESSURE GRANIT	

DRILLER'S NAME GREGG DRILLINGDRILLER'S LICENSE NO. 485765

WELL PROJECTS

Drill Hole Diameter 8-12" in. Maximum EW-1
Casing Diameter 2-6" in. Depth VAR ft.
Surface Seal Depth VAR ft. Owner's Well Number SEE ATTACHED

GEOTECHNICAL/CONTAMINATION PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MARCH 1, 2005COMPLETION DATE MARCH 4, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Kin DATE 1/26/05PLEASE PRINT NAME KEVIN UNO

Rev.5-11-04

FOR OFFICE USE

PERMIT NUMBER WOS-0101
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of committed original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS
INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three foot replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete plugged by tremie.

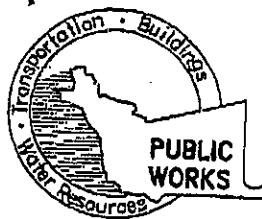
F. WELL DESTRUCTION — PGAT
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

J. J. UnoDATE 2-2-05



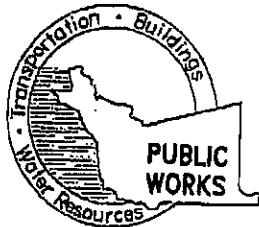
**ALAMEDA COUNTY PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James Yoo FAX (510) 782-1939**

PERMIT NO. W05-0085

**WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE**

**G. SPECIAL CONDITIONS #5
DESTRUCTION OF MONITORING WELLS IN PUBLIC RIGHT-OF-WAY**

1. Prior to the destruction of any monitoring wells into any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
2. Overdrill or clean out to original depth.
3. Remove any casing(s) and annular seal to 3-5 feet below finished grade of original ground, whichever is the lower elevation.
4. Destroy well by grouting neat cement with a tremie pipe to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade.
5. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.
6. Permittee, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
7. Permit is valid only for the purpose specified herein on March 1 to March 4, 2005. No changes in construction procedures, as described on this permit application.
8. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
9. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including a permit number and site map.
10. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
11. This permit may be voided if it contains incorrect information.
12. Applicant shall contact George Bolton for a inspection time at 510-670-5594 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

PERMIT NO. W05-0086-0101

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
Destruction of Wells (Less than 45 feet in depth)

Destruction Requirements: PRESSURE GROUTING #1

1. Remove any casing(s) and annular seal to 3-5 feet below finished grade of original ground, whichever is the lower elevation. If well(s) are obstructed, then drill out to original depth.
2. Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.
3. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.
4. Drilling permits are valid from the start date to the completion date. Permits can be extended by a phone call, but drilling permit applications will not be extended beyond 90 days from the approved start date. Permit is valid from March 1 to March 4, 2005.
5. Permittee, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. This permit may be voided if it contains incorrect information.
7. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
8. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including: permit number and site map.
9. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
10. Applicant shall contact George Bolton for a inspection time at 510-670-5594 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

ATTACHMENT B
DWR Well Completion Reports
(original copies submitted separately to ACPW)

Total depth of boring: 41-1/2 feet Diameter of boring: 8 inches Date drilled: 2-22-89
 Casing diameter: 2 inches Length: 41-1/2 feet Slot size: 0.020-inch
 Screen diameter: 2 inches Length: 16-1/2 feet Material type: PVC
 Drilling Company: HEW Drilling Company, Inc. Driller: Anibal and Fabian
 Method Used: Hollow-Stem Auger Field Geologist: M. Killoran

Signature of Registered Professional:

Registration No.: _____ State: CA

DEPTH	SAMPLE NO.	SGS #	P.I.D.	USCS CODE	DESCRIPTION	WELL CONST.
0					Asphalt (6 inches).	
2					Silty clay, some sand, dark gray, damp, high plasticity, medium stiff.	
4						
5	S-8	5 10 15	1.4	CH	Very stiff.	
8						
10						
12	S-11	7 17 18	0.3	CL	Silty clay, with some sand and gravel, brown, damp, medium plasticity, hard.	
14						
16	S-16	12 26 28	0.3			
18						
20	S-21	5 8 11	0.9			
(Section continues downward)						

	PROJECT NO. <u>18078-2</u>
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LOG OF BORING B-5/MW-2 PLATE
 ARCO Station No. 362
 29900 Mission Boulevard
 Hayward, California
P - 9

Depth	Sample No.	S.G. 65	P.I.D.	USCS Code	Description	Well Const.
22				CL	Silty clay, with some sand and gravel, brown, damp, medium plasticity, very stiff.	vv vv v v
24						
26	S-26	7 14 17	4.5		Trace sand.	
28						
30	S-31	7 17 15	296		Wet.	
32				▽		
34						
36	S-36	5 7 10	1.2		Some sand, moist.	
38						
40	S-41	11 24 33	0.5		Hard.	
42					Total Depth = 41-1/2 feet.	
44						
46						
48						
50						



Applied GeoSystems

PROJECT NO.

18078-2

LOG OF BORING B-5/MW-2 PLATE

ARCO Station No. 362
29900 Mission Boulevard
Hayward, California

P - 10

Total depth of boring: 41-1/2 feet Diameter of boring: 8 inches Date drilled: 2-23-89
 Casing diameter: 2 inches Length: 40-1/2 feet Slot size: 0.020-inch
 Screen diameter: 2 inches Length: 15 feet Material type: PVC
 Drilling Company: HEW Drilling Company, Inc. Driller: Anibal and Sal

Method Used: Hollow-Stem Auger

Field Geologist: Jim Cline

Signature of Registered Professional:

Registration No.: _____ State: CA

DEPTH	SAMPLE NO.	SHOW ELEV.	P.I.D.	USCS CODE	DESCRIPTION	WELL CONST.
- 0						
- 2						
- 4						
- 6	S-6	6 8 12	0	CH	Asphalt (4 inches) over base rock (4 inches). Silty clay, with some fine-grained sand and trace of gravel, dark gray, moist, high plasticity, very stiff.	
- 8						
- 10	S-11	4 6 10	0	CL	Silty clay, with sand and some small gravel, brown, damp, medium plasticity, very stiff.	
- 12						
- 14						
- 16	S-16	13 16 19	0		Grades very gravelly, hard.	
- 18						
- 20	S-21	5 7 11	7		Grades gray-brown. (Section continues downward)	



PROJECT NO. 18078-2

LOG OF BORING B-6/MW-3

ARCO Station No. 362
29900 Mission Boulevard
Hayward, California

PLATE

P - 11

Depth	Sample No.	ST	P.I.D.	USCS Code	Description	Well Const.
-22				CL	Silty clay, with sand and gravel, gray-brown, damp, medium plasticity, very stiff.	▼▼▼▼▼▼▼
-24				CL	Sandy clay, with gravel, gray-brown, damp, low plasticity, hard.	—
-26	S-26	8 15 22	84			—
-28						—
-30	S-31	16 20 23	212	▽		—
-32						—
-34						—
-36	S-36	7 12 16			Wet, grades very stiff.	—
-38				CL	Silty clay, brown, damp, medium plasticity, hard, (partially cemented).	—
-40		13 22 40	0			—
-42					Total Depth = 41-1/2 feet.	
-44						
-46						
-48						
-50						



PROJECT NO.

18078-2

LOG OF BORING B-6/MW-3 PLATE

ARCO Station No. 362
 29900 Mission Boulevard
 Hayward, California

P - 12

ORIGINAL
File with DWR

Page ____ of ____

Owner's Well No. MW-4

Date Work Began 3/7/04, Ended 3/7/04

Local Permit Agency ACFW

Permit No. WOS-0088 Permit Date 2/2/05

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. e023861

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE

LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG		WELL OWNER	
ORIENTATION (±)	<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE (SPECIFY) _____	Name	<u>BP/ARCO PAUL SUPPLE</u>
DEPTH FROM SURFACE	DRILLING METHOD	Mailing Address	<u>PO BOX 6549 MORGAN CA 94570</u>
FL. to FL.	DESCRIPTION Describe material, grain size, color, etc.	CITY	STATE ZIP
<u>* PRESSURE GROUT W/PORTLAND CEMENT</u>		WELL LOCATION	
		Address	<u>29900 MISSION BLVD.</u>
		City	<u>HAYWARD</u>
		County	<u>ALAMEDA</u>
		APN Book	Page
		Township	Range
		Latitude	Longitude
		DEG. MIN. SEC.	DEG. MIN. SEC.
		LOCATION SKETCH	
		ACTIVITY (±)	
		<input type="checkbox"/> NEW WELL	
		MODIFICATION/REPAIR	
		<input type="checkbox"/> Deepen	
		<input type="checkbox"/> Other (Specify)	
		<input checked="" type="checkbox"/> DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")	
		PLANNED USES (±)	
		WATER SUPPLY	
		<input type="checkbox"/> Domestic <input type="checkbox"/> Public	
		<input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial	
		MONITORING <input checked="" type="checkbox"/>	
		TEST WELL <input type="checkbox"/>	
		CATHODIC PROTECTION <input type="checkbox"/>	
		HEAT EXCHANGE <input type="checkbox"/>	
		DIRECT PUSH <input type="checkbox"/>	
		INJECTION <input type="checkbox"/>	
		VAPOR EXTRACTION <input type="checkbox"/>	
		SPARGING <input type="checkbox"/>	
		REMEDIATION <input type="checkbox"/>	
		OTHER (SPECIFY) _____	
		SEE ATTACHED	
		SOUTH	
		Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.	
		WEST	
		EAST	
		NORTH	
		WATER LEVEL & YIELD OF COMPLETED WELL	
		DEPTH TO FIRST WATER (ft.) BELOW SURFACE	
		DEPTH OF STATIC WATER LEVEL <u>31.64</u> (ft.) & DATE MEASURED <u>10/8/04</u>	
		ESTIMATED YIELD (GPM) & TEST TYPE	
		TEST LENGTH (Hrs.) TOTAL DRAWDOWN (ft.)	
		* May not be representative of a well's long-term yield.	
TOTAL DEPTH OF BORING <u>41.5</u> (Feet)			
TOTAL DEPTH OF COMPLETED WELL <u>36.0</u> (Feet)			

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)					DEPTH FROM SURFACE	ANNULAR MATERIAL				
		TYPE (±)	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)		TYPE	CEMENT (±)	BENTONITE (±)	FILL (±)	FILTER PACK (TYPE/SIZE)
Ft. to Ft.		BLANK	SCREEN	DOWN-DRILL PIPE			Ft. to Ft.					
0	28	10	X		PVC	4	SCH 40					
28	36	10	X		PVC	4	SCH 40					

ATTACHMENTS (±)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other SITE PLAN

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Kevin Uno for GREGG DRILLING
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 950 HOWE RD

ADDRESS

Signed

WELL DRILLER/AUTHORIZED REPRESENTATIVE

CITY MARTINEZ STATE CA ZIP 94553

DATE SIGNED 9/8/05

C-57 LICENSE NUMBER

ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. MW-5

Date Work Began 3/7/05, Ended 3/7/05

Local Permit Agency ACPW

Permit No. WOS-0089

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. e023844

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE

LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (↙)

VERTICAL HORIZONTAL ANGLE (SPECIFY)

DEPTH FROM SURFACE

DEPTHL DRILLING METHOD

FL. to FL. DESCRIPTION

Fluid
Describe material, grain size, color, etc.

PRESSURE GROUT w/NEAT PORTLAND CEMENT.

WELL OWNER

Name BP/ARCO c/o PAUL SUPPLE

Mailing Address PO BOX 6549

CITY MORAGA

CA 94570

STATE ZIP

WELL LOCATION

Address 29900 MISSION BLVD.

City HAYWARD

County ALAMEDA

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude _____ NORTH Longitude _____ WEST

LOCATION SKETCH

DEG. MIN. SEC. DEG. MIN. SEC.

ACTIVITY (↙)

NEW WELL

MODIFICATION/REPAIR

— Deepen

— Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (↙)

WATER SUPPLY

— Domestic Public

— Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDIATION

OTHER (SPECIFY)

SEE ATTACHED

SOUTH
Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 33 (FT.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 26.00 (FT.) & DATE MEASURED 7/14/04

ESTIMATED YIELD * _____ (GPM) & TEST TYPE

TEST LENGTH _____ (HRS.) TOTAL DRAWDOWN _____ (FT.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 41.5 (Feet)

TOTAL DEPTH OF COMPLETED WELL 41.5 (Feet)

DEPTH FROM SURFACE

BORE-HOLE DIA.
(Inches)

BLANK

SCREEN

CONDUCTOR

FULL PIPE

CASING (S)

MATERIAL / GRADE

INTERNAL DIAMETER
(Inches)

GAUGE OR WALL THICKNESS

SLOT SIZE IF ANY
(Inches)

DEPTH FROM SURFACE

ANNUAL MATERIAL

TYPE

CEMENT

BENTONITE

FILL

FILTER PACK
(TYPE/SIZE)

SEE ATTACHED

ATTACHMENTS (↙)

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other SITE MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME KEVIN UNO FOR GREGG DRILLING
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 950 HOWE RD

ADDRESS

Signed K - L
WELL DRILLER/AUTHORIZED REPRESENTATIVE

CITY MARTINEZ STATE CA ZIP 94553

DATE SIGNED 4/8/05 LICENSE NUMBER 485165
C-57

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Depth of boring: 41-1/2 feet Diameter of boring: 10 inches Date drilled: 6-6-91
 Well depth: 37-1/2 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 24 to 37-1/2 feet Slot size: 0.020-inch
 Drilling Company: Exceitech Driller: Don, George, Kenny
 Method Used: Hollow-Stem Auger Field Geologist: Joel Coffman
 Signature of Registered Professional:
 Registration No.: CEG 1366 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
- 0					Asphalt 6 inches.	
- 2				CL	Silty clay, with sand and small gravel, dark gray, damp, medium plasticity, very stiff.	v v
- 4						v v
- 6	S-4.5	6 9 12	1.1		Color change to brown.	v v
- 8						v v
- 10	S-9.5	7 8 11	0.2		Color change to light brown.	v v
- 12				GM	Silty gravel, light brown, damp, dense; gravel up to 1-inch diameter.	v v
- 14	S-14.5	6 4 9	0	CL	Silty clay, with some gravel, light brown, damp, medium plasticity, hard.	v v
- 16						v v
- 18						v v
- 20	S-19.5	8 11 14	0			v v
(Section continues downward)						

 Applied GeoSystems	
PROJECT:	60028-3

LOG OF BORING B-9/MW-5
 ARCO Station 362
 29900 Mission Boulevard
 Hayward, California

PLATE 8

Depth	Sample No.	S. Blows	P.I.D.	USCS Code	Description	Well Const.
-22				CL	Silty clay, with some gravel, light brown, damp, medium plasticity, very stiff.	▼ ▽ ▽ ▽ ▽ ▽ ▽
-24	S-24.5	9 21 28	0			
-26				SC	Clayey sand, with gravel, light brown, damp, very dense.	
-28						▼
-29.5	S-29.5	7 10 18 18	0	ML	Gravelly silt, light brown, damp, low plasticity, very stiff.	
-30	S-31	9 13	0	ML	Clayey silt, light brown, damp, medium plasticity, very stiff.	
-32	S-32.5	5 5	0	GC	Clayey gravel, brown, moist, medium dense.	
-34	S-34	14 8 22 32	0	CL	Silty clay, with gravel, light brown, damp to moist, medium plasticity, very stiff.	
-36				GC	Clayey gravel, brown, damp to moist, very dense.	
-37.5	S-37.5	8 26 33	0	CL	Silty clay, light brown, damp, medium plasticity, hard.	
-40	S-40.5	13 21 30	0			
-42					Total Depth = 41-1/2 feet.	
-44						
-46						
-48						
-50						



PROJECT 60028-3

LOG OF BORING B-9/MW-5
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
9

ORIGINAL
File with DWR

Page _____ of _____
Owner's Well No. MW-8
Date Work Began 3/10/05, Ended 3/10/05
Local Permit Agency ACPN
Permit No. WOS-0085 Permit Date 02/02/05

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY — DO NOT FILL IN			
STATE WELL NO./STATION NO.			
LATITUDE		LONGITUDE	
APN/TRS/OTHER			

GEOLOGIC LOG		WELL OWNER	
ORIENTATION (±)	<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE (SPECIFY) _____	Name	<u>BP/ARCO c/o PAUL SUPPLE</u>
DEPTH FROM SURFACE	DRILLING METHOD	Mailing Address	<u>PO BOX 6549</u>
Ft. to Ft.	FLUID	CITY	<u>MORAGA CA 94570</u>
DESCRIPTION Describe material, grain size, color, etc.		WELL LOCATION	
<u>PRESSURE GROUT W/NEAT PORTLAND CEMENT</u>		Address	<u>29900 MISSION BLVD</u>
		City	<u>HAYWARD</u>
		County	<u>ALAMEDA</u>
		APN Book	Page
		Township	Range
		Latitude	Longitude
		DEG. MIN. SEC.	DEG. MIN. SEC.
LOCATION SKETCH			
ACTIVITY (±) — NEW WELL MODIFICATION/REPAIR — Deepen — Other (Specify)			
<input checked="" type="checkbox"/> DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")			
PLANNED USES (±)			
WATER SUPPLY — Domestic <input type="checkbox"/> Public — Irrigation <input type="checkbox"/> Industrial MONITORING <input checked="" type="checkbox"/> TEST WELL CATHODIC PROTECTION HEAT EXCHANGE DIRECT PUSH INJECTION VAPOR EXTRACTION SPARGING REMEDIATION OTHER (SPECIFY)			
SOUTH <small>Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.</small>			
WATER LEVEL & YIELD OF COMPLETED WELL			
DEPTH TO FIRST WATER <u>29.5</u> (Ft.) BELOW SURFACE			
DEPTH OF STATIC WATER LEVEL <u>30.08</u> (Ft.) & DATE MEASURED <u>10/8/04</u>			
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____			
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)			
* May not be representative of a well's long-term yield.			
TOTAL DEPTH OF BORING <u>48.5</u> (Feet)		TOTAL DEPTH OF COMPLETED WELL <u>43.5</u> (Feet)	

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)				DEPTH FROM SURFACE	ANNULAR MATERIAL				
		TYPE (±)	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS		SLOT SIZE IF ANY (Inches)	TYPE	CEMENT	BENTONITE	FILL
ft. to ft.		BLANK	SCREEN	COND. DIAM.	FILL PIPE	ft. to ft.	(±)	(±)	(±)		
<u>SEE ATTACHED</u>											

ATTACHMENTS (±)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other SITE MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT				
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.				
NAME <u>KEVIN Uno For GREGG DRILLING</u> (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)				
ADDRESS <u>950 HOWE RD.</u> CITY <u>MARTINEZ CA 94553</u> STATE <u>CA</u> ZIP <u>94553</u>				
Signed <u>K-</u>		WELL DRILLER/AUTHORIZED REPRESENTATIVE	DATE SIGNED <u>4/8/05</u>	C-57 LICENSE NUMBER <u>485165</u>

Depth of boring: 48-1/2 feet Diameter of boring: 10 inches Date drilled: 04/01/92
 Well depth: 43-1/2 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 28 to 43-1/2 feet Slot size: 0.020-inch
 Drilling Company: Kvilhaug Drilling Driller: Brian and Rod
 Method Used: Hollow-Stem Auger Field Geologist: Lou Leet and Barbara Sieminski
 Signature of Registered Professional: [Signature]
 Registration No.: CEG 1463 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Concrete sidewalk. Concrete (4 inches).	
2				CL	Sandy clay with gravel, dark brown, damp, medium plasticity, hard.	
4						
6	S-5	5 12 27	0			
8						
10	S-10	7 20 30	0	CL	Increasing sand. Silty clay with sand, brown, damp, medium plasticity, hard.	
12						
14	S-15	23 50/5"	0	GC	Clayey gravel with sand, brown, damp, very dense.	
16						
18				SM	Silty sand with gravel, brown, damp, very dense.	
20	S-20	15 27 35	0			
(Section continues downward)						

RESNA
Working to Restore Nature

PROJECT: 60028.07

LOG OF BORING B-18/MW-8
 ARCO Station 362
 29900 Mission Boulevard
 Hayward, California

PLATE 20

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
-22				SM	Silty sand with gravel, brown, damp, very dense.	
-24						
-26	S-25	12 24 28	0	ML	Clayey silt, brown, damp, low plasticity, very stiff.	
-28	S-29 S-30	12 10 8	1.4	Moist. = SW	Gravelly sand, light brown, wet, medium dense.	
-30						
-32						
-34	S-35	10 22	0	ML	Clayey silt, light brown, wet, low plasticity, hard.	
-36	S-36	24 8 12	0	SP	Gravelly sand, light brown, wet, medium dense.	
-38		16 13 25 30	0	CL SP	Silty clay, light brown, damp to moist, medium plasticity, very stiff. Gravelly sand, light brown, wet, very dense.	
-40	S-40	12 20 50	0	CL	Silty clay, light brown, damp to moist, medium plasticity, hard.	
-42	S-41.5	12 24 50 18 50/5"	0	GP	Sandy gravel, light brown, wet, very dense.	
-44	S-45	10 20 45	0	CL	Silty clay, light brown, damp to moist, medium plasticity, hard.	
-46	S-46.5	25 50/5"	0	GP-GM	Sandy gravel with silt, light brown, wet, very dense.	
-48		25 50/5"		CL	Silty clay with gravel, light brown, damp, medium plasticity, hard.	
-50					With sand.	
					Total depth = 48-1/2 feet.	

RESNA
Working to Restore Nature

PROJECT

60028.07

LOG OF BORING B-18/MW-8
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
21

ORIGINAL
File with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

Page 1 of 1
Owner's Well No. MW-9
Date Work Began 3/7/05, Ended 3/7/05
Local Permit Agency ACPW
Permit No. WOS-0090 Permit Date 3/2/05

DWR USE ONLY — DO NOT FILL IN			
STATE WELL NO./STATION NO.			
LATITUDE		LONGITUDE	
APN/TRS/OTHER			

GEOLOGIC LOG						WELL OWNER	
ORIENTATION (✓)	<input checked="" type="checkbox"/> VERTICAL	<input type="checkbox"/> HORIZONTAL	<input type="checkbox"/> ANGLE	(SPECIFY)			Name <u>BP/MARCO do PAUL SUPPLIE</u>
DEPTH FROM SURFACE	DRILLING METHOD	DESCRIPTION			Mailing Address <u>PO BOX 6549 MORAGA CA 94570</u>		
Ft. to Ft.	FLUID			Describe material, grain size, color, etc.			CITY
<u>X PRESSURE GROUTED W/PORTLAND CEMENT CONCRETE</u>						STATE	ZIP
						WELL LOCATION	
						Address <u>29900 MISSION BLVD</u>	
						City <u>HAYWARD</u>	
						County <u>ALAMEDA</u>	
						APN Book _____ Page _____ Parcel _____	
						Township _____ Range _____ Section _____	
						Latitude _____ NORTH Longitude _____ WEST	
						DEG. MIN. SEC. DEG. MIN. SEC.	
						LOCATION SKETCH	ACTIVITY (✓)
						NORTH	<input type="checkbox"/> NEW WELL
						EAST	<input type="checkbox"/> MODIFICATION/REPAIR <input type="checkbox"/> Deepen <input type="checkbox"/> Other (Specify) <u>SEE ATTACHED</u>
						SOUTH	<input checked="" type="checkbox"/> DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")
						ILLUSTRATE OR DESCRIBE DISTANCE OF WELL FROM ROADS, BUILDINGS, FENCES, RIVERS, ETC. AND ATTACH A MAP. USE ADDITIONAL PAPER IF NECESSARY. PLEASE BE ACCURATE & COMPLETE.	
WATER LEVEL & YIELD OF COMPLETED WELL							
DEPTH TO FIRST WATER <u>31.25</u> (ft.) BELOW SURFACE							
DEPTH OF STATIC WATER LEVEL <u>32.12</u> (ft.) & DATE MEASURED <u>10/18/04</u>							
ESTIMATED YIELD _____ (GPM) & TEST TYPE _____							
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (ft.)							
* May not be representative of a well's long-term yield.							
TOTAL DEPTH OF BORING <u>43</u> (Feet)							
TOTAL DEPTH OF COMPLETED WELL <u>39.0</u> (Feet)							

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)					DEPTH FROM SURFACE	ANNULAR MATERIAL				
		TYPE (✓)		MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS		SLOT SIZE IF ANY (Inches)	TYPE		CEMENT	
Ft. to Ft.	BLANK	SCREEN	CONDUCTOR	FILL PIPE			Ft. to Ft.	(✓)	(✓)	(✓)		
<u>SEE ATTACHED</u>												

ATTACHMENTS (✓)			CERTIFICATION STATEMENT								
<input checked="" type="checkbox"/> Geologic Log <input type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>SITE PLAN</u>			I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief. NAME <u>KOVIN UNO FOR GREGG DRILLING</u> (PIRSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)								
			ADDRESS <u>950 HOWE RD</u> CITY <u>MARTINEZ CA 94553</u> STATE <u>CA</u> ZIP <u>94553</u>								
			Signed <u>K. U.</u> DATE SIGNED <u>4/8/05</u> C-57 LICENSE NUMBER <u>4RS165</u> WELL DRILLER AUTHORIZED REPRESENTATIVE								
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.											

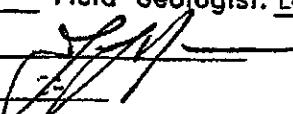
Depth of boring: 43 feet Diameter of boring: 10 inches Date drilled: 2/2/93

Well depth: 39 feet Material type: Ssch 40 PVC Casing diameter: 2 inches

Screen interval: 29 to 39 feet Slot size: 0.020-inch

Drilling Company: Exploration GeoServices Driller: John, Danny, and Mike

Method Used: Hollow-Stem Auger Field Geologist: Lou Leet

Signature of Registered Professional: 

Registration No.: CEG 1463 State: CA

Depth Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0 -					
2 -					
4 -					
S-5	11			Asonalt (6 inches)	
S-5.5	23			Silty clay, gray, damp, medium plasticity, stiff.	
6 -	35	O	CL	Color change to dark brown, hard.	
8 -					
10 -					
S-10.5	15		CL	Sandy clay, fine to coarse-grained sand, trace medium gravel, brown, damp, medium plasticity, hard.	
12 -	25	O			
14 -	27				
16 -					
18 -					
20 -					
S-20.5	12	O		With silt, fine- to medium-grained sand.	
	14				
	18				

(Section continues downward)



PROJECT: 60028.13

LOG OF BORING B-21/MW-9

ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE

5

Depth	Sample No.	S. BLOW	P.I.D.	USCS Code	Description	Well Const.
-20.5	S-20.5	14 18	0	CL	Sandy clay with silt, fine- to medium-grained, brown, damp, medium plasticity, hard.	
-22						
-24						
-25.5	S-25.5	12 22 50	0	SM	Silty fine- to medium-grained sand, trace clay, brown, damp, very dense.	
-26						
-27.5	S-27.5	10 12 20	0	ML	Sandy silt with clay, brown, damp, low plasticity, very stiff.	
-28						
-29.5	S-29.5	15 22 25	0	ML	Clayey silt with fine-grained sand, brown, damp, low plasticity, hard.	
-30						
-31.5	S-31.5	15 40	0	ML	Sandy silt, fine-grained sand, brown, moist to wet, low plasticity, hard.	
-32						
-33.5	S-33.5	15 16 23	0	SM	Silty sand with fine gravel, fine- to coarse-grained sand, brown, wet, dense.	
-34						
-36	S-36.5	10 12 18	0	ML	Clayey silt with fine- to medium grained sand, brown, wet, low plasticity, stiff.	
-38	S-38.5	17 30 32	0	GM	Silty gravel, fine to coarse, brown, wet, very dense.	
-40	S-40.5	18 30 32	0	CL	Silty clay, brown, damp, medium plasticity, hard.	
-42	S-42.5	20 30 33	0			
-43					Total depth = 43 feet.	
-44						
-46						
-48						
-50						

RESNA
Working to Restore Nature

PROJECT 60028.13

LOG OF BORING B-21/MW-9
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE

6

ORIGINAL
File with DWR

Page _____ of _____

Owner's Well No. MW-10

Date Work Began 3/7/05

Local Permit Agency ACPW

Permit No. W05-0091

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. e023848

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE

LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (±)	<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE (SPECIFY)	WELL OWNER	
DEPTH FROM SURFACE	DRILLING METHOD	FLUID	Name: <u>BP/ACW c/o PAUL SUPPLE</u>
Ft. to Ft.	DESCRIPTION <i>Describe material, grain size, color, etc.</i>		Mailing Address: <u>PO BOX 6549</u>
* PRESSURE GROUT w/PORTLAND NEAT CEMENT.		CITY: <u>MORAGA</u> STATE: <u>CA</u> ZIP: <u>94570</u>	
WELL LOCATION			
Address: <u>2990 MISSION BLVD.</u>			
City: <u>HAYWARD</u>			
County: <u>ALAMEDA</u>			
APN Book: _____ Page: _____ Parcel: _____			
Township: _____ Range: _____ Section: _____			
Latitude: <u>37° 24' N</u>		Longitude: <u>122° 10' W</u>	
DEG. MIN. SEC.		DEG. MIN. SEC.	
LOCATION SKETCH			
ACTIVITY (±)			
— NEW WELL			
MODIFICATION/REPAIR			
<input type="checkbox"/> Deepen			
<input type="checkbox"/> Other (Specify)			
<input checked="" type="checkbox"/> DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")			
PLANNED USES (±)			
WATER SUPPLY			
<input type="checkbox"/> Domestic <input type="checkbox"/> Public			
<input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial			
MONITORING <input checked="" type="checkbox"/>			
TEST WELL <input type="checkbox"/>			
CATHODIC PROTECTION <input type="checkbox"/>			
HEAT EXCHANGE <input type="checkbox"/>			
DIRECT PUSH <input type="checkbox"/>			
INJECTION <input type="checkbox"/>			
VAPOR EXTRACTION <input type="checkbox"/>			
SPARGING <input type="checkbox"/>			
REMEDIATION <input type="checkbox"/>			
OTHER (SPECIFY) <input type="checkbox"/>			
SOUTH			
Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.			
WATER LEVEL & YIELD OF COMPLETED WELL			
DEPTH TO FIRST WATER <u>29.5</u> (ft.) BELOW SURFACE			
DEPTH OF STATIC			
WATER LEVEL <u>30.38</u> (ft.) & DATE MEASURED <u>10/8/04</u>			
ESTIMATED YIELD * <u>(GPM)</u> & TEST TYPE			
TEST LENGTH <u>(Hrs.)</u> TOTAL DRAWDOWN <u>(ft.)</u>			
* May not be representative of a well's long-term yield.			
TOTAL DEPTH OF BORING <u>40.5</u> (Feet)		TOTAL DEPTH OF COMPLETED WELL <u>38</u> (Feet)	

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)					DEPTH FROM SURFACE	ANNULAR MATERIAL				
		TYPE (±)	BLANK	SCREEN	CONDUCTOR	PIPE FILL		MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	CEMENT
Ft. to Ft.									(±)	(±)	(±)	CEMENT PACK (TYPE/SIZE)
<i>SBP ATTACHED</i>												

ATTACHMENTS (±)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other SITE PLAN

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME: KEVIN UNO FOR GREGG DRILLING
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS: 930 HOWE RD. CITY: MARTINEZ STATE: CA ZIP: 94553
Signed: [Signature] WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED: 4/18/05 LICENSE NUMBER: 485165
C-57

Depth of boring: 40 1/2 feet Diameter of boring: 10 inches Date drilled: 2/2/93
Well depth: 38 feet Material type: Sch 40 PVC Casing diameter: 2 inches

Screen interval: 26 to 38 feet Slot size: 0.020-inch

Drilling Company: Exploration GeoServices Driller: John, Danny, and Mike

Method Used: Hollow-Stem Auger Field Geologist: Lou Leet

Signature of Registered Professional:

Registration No.: CEG 1463 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Asphalt (4 inches)	
2				CL	Silty clay, dark brown, damp, medium plasticity, very stiff.	
4						
6	S-5 S-5.5	14 32 50	0		Color change to dark brown, hard.	
8						
10	S-10.5	6 18 19	0	SM	Silty sand with clay and medium gravel, fine-grained sand, brown, damp, dense.	
12						
14						
16	S-15.5	10 14 23	0	GP-GC	Gravelly sand with clay, fine- to coarse-grained sand, fine gravel, brown, damp, dense.	
18						
20	S-20.5	12 19 27	0	CL GC	Silty clay with fine-grained sand, brown, damp, medium plasticity, very stiff. Clayey fine gravel, brown, damp, dense.	

(Section continues downward)



PROJECT: 60028.13

LOG OF BORING B-22/MW-10

ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE

7

Depth	Sample No.	S. BLOW	P.I.D.	USCS Code	Description	Well Const.
-20.5	S-20.5	19 27	0	GC	Clayey fine gravel, brown, damp, dense.	v v
-22						v v
-24						v v
-25.5	S-25.5	12 18 29	0	SM	Silty sand with clay and fine gravel, fine- to coarse-grained, brown, damp, dense.	v v
-26						v v
-28	S-29	12 17 23	0	SC ▼ GP	Clayey sand with fine gravel, fine- to coarse-grained sand, brown, moist, dense.	v v
-30					Sand fine gravel, fine- to coarse-grained sand, brown, wet, medium dense.	v v
-31.5	S-31.5	7 9 17	0	CL	Silty clay with fine-grained sand, wet, medium plasticity, very stiff.	v v
-32						v v
-34						v v
-36						v v
-37.5	S-37.5	12 15 21 5	0	ML	Clayey silt, brown, damp, medium plasticity, hard.	v v
-39	S-39	15 27	0	CL	Silty clay, brown, damp, medium plasticity, hard.	v v
-40					Total depth = 40 1/2 feet.	v v
-42						
-44						
-46						
-48						
-50						

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Working to Restore Nature

PROJECT 60028.13

LOG OF BORING B-22/MW-10
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE

8

ORIGINAL
File with DWR

Page ____ of ____
Owner's Well No. MW-11
Date Work Began 3/7/05, Ended 3/7/05
Local Permit Agency ACPW
Permit No. WOS-0092

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. e023849

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.			
LATITUDE		LONGITUDE	
APN/TRS/OTHER			

WELL OWNER

Name BP/ARCO c/o PAUL SUPPLE
Mailing Address PO BOX 6549
MORAGA

CA 94570

CITY STATE ZIP

WELL LOCATION

Address 2990 MISSION BLVD

City HAYWARD

County ALAMEDA

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude _____ NORTH Longitude _____ WEST

DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH ACTIVITY (≤)

— NEW WELL

MODIFICATION/REPAIR
— Deepen
— Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (≤)

WATER SUPPLY
— Domestic — Public

— Irrigation — Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDIATION

OTHER (SPECIFY) _____

SEE

ATTACHED

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 30 (ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 25.38 (ft.) & DATE MEASURED 7/2/03

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (ft.)

* May not be representative of a well's long-term yield.

GEOLOGIC LOG											
DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S)				STRENGTHENING (S)					TOTAL LENGTH (FT.)
		TYPE (≤) BLANK SCREEN CONDUCTOR FIL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	CERAMIC CEMENT	BENTONITE	FILL	GRANULAR FILLER	
1	18										34.5
2	18										31
TOTAL DEPTH OF BORING <u>34.5</u> (Feet) TOTAL DEPTH OF COMPLETED WELL <u>31</u> (Feet)											

ATTACHMENTS (≤)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other SEE PLAN

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Kevin Uno for GREGG DRILLING
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 950 Howe Rd

CITY MARTINEZ

STATE CA ZIP 94553

Signed KU

WELL DRILLER/AUTHORIZED REPRESENTATIVE

DATE SIGNED 4/8/03

C-57 LICENSE NUMBER 485165

Depth of boring: 34 1/2 feet Diameter of boring: 10 inches Date drilled: 2/3/93
 Well depth: 31 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 21 to 31 feet Slot size: 0.020-inch
 Drilling Company: Exploration GeoServices Driller: John, Danny, and Mike
 Method Used: Hollow-Stem Auger Field Geologist: Lou Leet
 Signature of Registered Professional: _____
 Registration No.: CEG 1463 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Asphalt (4 inches)	
2				CL	Silty clay with fine- to coarse-grained sand, dark brown, damp, medium plasticity, very stiff.	
4					Hard.	
5.5	S-5.5	15 28 40	0			
6						
8						
10	S-10.5	23 50	0	SM/SC	Silty clayey sand, fine- to coarse-grained, brown, damp, very dense.	
12						
14						
15.5	S-15.5	31 48 50	0	ML	Clayey silt with fine- to coarse-grained sand, light brown, damp, low plasticity, hard.	
16						
18						
20	S-20.5	35 50	0			

(Section continues downward)



PROJECT: 60028.13

LOG OF BORING B-23/MW-11
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE

9

Depth	Sample No.	SWOB BLOWS	P.I.D.	USCS Code	Description	Welt Const.
-22	S-20.5	35 50	0	ML	Clayey silt with fine- to coarse-grained sand, light brown, damp, low plasticity, hard.	
-24			-			
-26	S-25.5	8 8 15	0	▼	With fine gravel.	
-28			0			
-30	S-29.5	7	0	▼	Damp to moist.	
-31	S-30.5	12 17	0	SW-SC	Gravelly sand with clay, fine- to coarse-grained sand, fine gravel, brown, wet, medium dense.	
-32	S-32.5	28 30 35	0	CL	Silty clay with fine-grained sand, brown, damp to moist, medium plasticity, very stiff.	
-34	S-34	18 25 27	0	GM CL	Silty fine gravel with clay, brown, dense, wet. Silty clay brown, moist, medium plasticity, hard.	
					Total depth = 34-1/2 feet.	
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						

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PROJECT 60028.13

LOG OF BORING B-23/MW-11
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
10

Depth of boring: 28-1/2 feet Diameter of boring: 10 inches Date drilled: 4/23/92
 Well depth: 27-1/2 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 8 to 27-1/2 feet Slot size: 0.10-INCH
 Drilling Company: H.E.W. Drilling Inc. Driller: Casto
 Method Used: Hollow-Stem Auger Field Geologist: Lou Leet

Signature of Registered Professional: J. J. Lee

Registration No.: CEG 1463 State: CA

Depth	Sample No.	B	Blow Count	P.I.D.	USCS Code	Description	Well Const.
0						Planter, asphalt.	
2					SW	Gravelly sand, light brown, moist; baserock.	
4					CL	Sandy clay, dark brown, moist, low to medium plasticity, stiff.	
6	S-5.5		3 6 8	0	CL	Silty clay with sand, dark brown, moist, low to medium plasticity, stiff; rootlets.	
8							
10	S-10.5		5 9 11	0	ML	Clayey silt with fine- to medium-grained sand, moist, low plasticity, very stiff.	
12							
14							
16	S-15.5		8 14 26	0	SM	Silty sand with fine- to medium-grained gravel and trace clay, red-brown, damp, dense.	
18							
20	S-20.5		3 6 10	33			
(Section continues downward)							

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Working to Restore Nature

PROJECT: 60028.07

LOG OF BORING B-11/VW-4
ARCO Station 362
2990 Mission Boulevard
Hayward, California

PLATE

6

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
-22				CL	Silty clay with fine- to coarse-grained sand, yellow-brown, damp to moist, stiff.	
-24					Clayey silt with fine-grained sand, yellow-brown, damp, low plasticity, very stiff.	
S-25.5	5 9 13	100		ML	Silty clay, trace sand, yellow-brown mottled gray, damp, low plasticity, very stiff; product odor.	
-26				CL	Clayey sand, fine-grained, yellow-brown, moist, medium dense.	
S-27.5	10 13 7	267		SC GP	Gravel, gray, damp, medium dense; product odor.	
-28				CL	Silty clay with fine-grained sand, yellow-brown, moist, low to medium plasticity, very stiff.	
					Total depth = 28-1/2 feet.	
-30						
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						

RESNA
Working to Restore Nature

PROJECT

60028.07

LOG OF BORING B-11/VW-4
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
7

Depth of boring: 29-1/2 feet Diameter of boring: 10 inches Date drilled: 4/22/92
 Well depth: 29 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 15 to 29 feet Slot size: 0.10-inch
 Drilling Company: H.E.W. Drilling Inc. Driller: Casto
 Method Used: Hollow-Stem Auger Field Geologist: Lou Leet
 Signature of Registered Professional: 
 Registration No.: CEG 1463 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Planter.	
2				SW	Gravelly sand, trace clay, red-brown, damp, loose; overlain by landscape plants; baserock.	
4				CL	Sandy clay, fine- to medium-grained sand, dark brown, moist, low plasticity, medium stiff.	
6	S-5.5	4 5 9	0	CL	Silty clay with fine gravel, dark brown, moist, medium plasticity, stiff; roots.	
8						
10				CL	Gravelly clay with fine- to medium-grained sand, dark brown, damp, medium plasticity, stiff.	
12	S-10.5	4 6 8	0	SC	Clayey sand with silt and gravel, light brown, damp, medium dense.	
14						
16	S-15.5	4 13 18	0	CL	Silty clay with sand and trace angular gravel up to 1 inch, red-brown, damp, medium plasticity, very stiff.	
18						
20	S-20.5	4 6 7	5.1	SM	Silty sand, trace gravel, brown, damp, medium dense. (Section continues downward)	

RESNA
Working to Restore Nature

PROJECT: 60028.07

LOG OF BORING B-12/VW-5
 ARCO Station 362
 2990 Mission Boulevard
 Hayward, California

PLATE 8

Depth	Sample No.	S. B. O. W.	P.I.D.	USCS Code	Description	Well Const.
-22				SM	Silty sand, trace gravel, brown, damp, medium dense.	
-24						
-26	S-25.5	5 7 11	12.1	CL	Silty clay, gray, damp, medium plasticity, very stiff.	
-28	S-28.5	4 6 9	286		With gravel and sand, brown. Red-brown, moist, stiff; product odor.	
-30					Total depth = 29-1/2 feet.	
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						

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Working to Restore Nature

PROJECT 60028.07

LOG OF BORING B-12/VW-5
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
9

Depth of boring: 29-1/2 feet Diameter of boring: 10 inches Date drilled: 4/24/92
 Well depth: 29 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 13 to 29 feet Slot size: 0.10-inch
 Drilling Company: H.E.W. Drilling Inc. Driller: Casto
 Method Used: Hollow-Stem Auger Field Geologist: Lou Leet
 Signature of Registered Professional: 
 Registration No.: CEG 1463 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Approximately 1-1/2 to 2 feet of asphalt and baserock removed during underground storage tank excavation	
2				CL	Clay, trace silt, dark gray, damp, low to medium plasticity, stiff.	V V V V V V
4				GW	Sandy gravel, light brown, damp, medium dense.	V V V V V V
6	S-5.5	3 5 6	0	CL	Sandy clay with silt, brown, moist, low plasticity, stiff.	V V V V V V
8						V V V V V V
10	S-10.5	3 4 5	0	CL	Clay with silt and trace sand, dark brown, moist, medium plasticity, medium stiff.	V V V V V V
12				CL	Silty clay with medium-grained sand, brown, moist, medium plasticity, stiff.	V V V V V V
14						V V V V V V
16	S-15.5	9 13 15	3	CL	Sandy clay with silt, brown, moist, medium plasticity, very stiff.	V V V V V V
18						V V V V V V
20	S-20.5	5 6 6	16	CL	Silty clay with sand, gray, moist, medium plasticity, stiff; product odor.	V V V V V V

(Section continues downward)

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Working to Restore Nature

PROJECT: 60028.07

LOG OF BORING B-13/VW-6
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
10

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
-22				CL	Silty clay with sand, gray, moist, medium plasticity, stiff.	
-24						
-26	S-25.5	4 5 10	96		Color change to brown; product odor.	
-28	S-28.5	5 7 9	103		Trace sand, gray-brown; product odor.	
-30			GM		Silty gravel, brown, very moist, medium dense. Total depth = 29-1/2 feet.	
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						

RESNA
Working to Restore Nature

PROJECT 60028.07

LOG OF BORING B-13/VW-6
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
11

ORIGINAL
File with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. e023855

Page of VW-7
Owner's Well No. VW-7

Date Work Began 3/7/05, Ended 3/7/05

Local Permit Agency ACPW
Permit No. WOS-0096

Permit Date 2/2/05

DWR USE ONLY - DO NOT FILL IN			
STATE WELL NO./STATION NO.			
LATITUDE		LONGITUDE	
APN/TRS/OTHER			

GEOLOGIC LOG						
ORIENTATION (✓)	<input checked="" type="checkbox"/> VERTICAL	<input type="checkbox"/> HORIZONTAL	<input type="checkbox"/> ANGLE	(SPECIFY)		
DEPTH FROM SURFACE	DRILLING METHOD	FLUID				
ft. to ft.	DESCRIPTION Describe material, grain size, color, etc.					
<u>* PRESSURE GROUT W/ PORTLAND NEAT CEMENT.</u>						
NORTH						
WEST						
EAST						
SOUTH						
Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.						
WATER LEVEL & YIELD OF COMPLETED WELL						
DEPTH TO FIRST WATER <u>NA</u> (ft.) BELOW SURFACE						
DEPTH OF STATIC WATER LEVEL _____ (ft.) & DATE MEASURED _____						
ESTIMATED YIELD _____ (GPM) & TEST TYPE _____						
TEST LENGTH _____ (Hr.) TOTAL DRAWDOWN _____ (ft.)						
* May not be representative of a well's long-term yield.						

TOTAL DEPTH OF BORING 27 (Feet)
TOTAL DEPTH OF COMPLETED WELL 22 (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)					DEPTH FROM SURFACE	ANNULAR MATERIAL					
		TYPE (✓)	BLANK	SCREEN	CONDUCTOR	FILL PIPE		MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE	
ft. to ft.										CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
<i>SEE ATTACHED</i>													

ATTACHMENTS (✓)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other SITE MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT											
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.											
NAME <u>KEVIN UNO</u> <u>for</u> <u>GREGG DRILLING</u> (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)											
ADDRESS <u>950 170th RD.</u> CITY <u>MARTINEZ CA</u> ZIP <u>94553</u>											
Signed <u>[Signature]</u> DATE SIGNED <u>4/8/05</u>											
WELL DRILLER/AUTHORIZED REPRESENTATIVE											
C-57 LICENSE NUMBER <u>483765</u>											

Depth of boring: 26-1/2 feet Diameter of boring: 10 inches Date drilled: 4/21/92
 Well depth: 27 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 12-27 feet Slot size: 0.10-inch
 Drilling Company: H.E.W. Drilling Inc. Driller: Casto
 Method Used: Hollow-Stem Auger Field Geologist: Lou Leet
 Signature of Registered Professional: J. J. Leet
 Registration No.: CEG 1463 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0						
2						
4						
6	S-5.5	4 9 11	0	ML CL CL	Asphalt (4 inches). Gravelly silt, light brown, damp, low plasticity, medium stiff; fill. Clay, trace silt, dark gray, damp, low plasticity, stiff. Silty clay with sand and gravel up to 1 inch, dark brown to brown, damp, medium plasticity, very stiff.	
8						
10	S-10.5	6 10 7	0		Color change to brown, stiff.	
12				GM	Silty gravel with sand, gravel up to 1 inch, fine- to coarse-grained sand, brown, damp, medium dense.	
14						
16	S-15.5	7 14 12	8	CL	Silty clay with sand and gravel, brown, damp, low to medium plasticity, very stiff.	
18						
20	S-20.5	8 14 14	49	SW-SM	Gravelly sand with silt, brown, damp, medium dense.	
					(Section continues downward)	

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LOG OF BORING B-14/VW-7
 ARCO Station 362
 29900 Mission Boulevard
 Hayward, California

PLATE
12

Depth	Sample No.	BLOWS	P.I.D.	USCS Code	Description	Well Const.
-22				SW-SM	Gravelly sand with silt, brown, damp, medium dense.	
-24						
-26	S-25.5	6 9 10	16	CL	Silty clay, trace fine sand, brown, damp, medium plasticity, very stiff.	
-28					Total depth = 27 feet.	
-30						
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						

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LOG OF BORING B-14/VW-7
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
13

Depth of boring: 28-1/2 feet Diameter of boring: 10 inches Date drilled: 4/22/92
 Well depth: 28 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 8 to 28 feet Slot size: 0.10-inch
 Drilling Company: H.E.W. Drilling Inc. Driller: Casto
 Method Used: Hollow-Stem Auger Field Geologist: Lou Leet

Signature of Registered Professional:

Registration No.: CEG 1463

State: CA

Depth	Sample No.	B.I.	P.I.D.	USCS Code	Description	Well Const.
0					Asphalt (4-inches).	
2				ML	Gravelly silt, light brown, damp, low plasticity, medium stiff; Fill.	
4				CL	Clay, trace silt, dark gray, damp, low plasticity, stiff.	
6	S-5.5	3 6 7	0	SW	Gravelly sand, light brown, damp, medium dense.	
8				CL	Silty clay with sand, brown, moist, medium plasticity, stiff.	
10	S-10.5	5 6 8	3.4			
12						
14						
16	S-15.5	6 14 18	2	GP-GC	Sandy gravel with clay and silt, brown, damp, dense.	
18						
20	S-20.5	5 7 6	7	GC	Clayey gravel with silt, moist, brown, medium dense. Color change to gray, damp.	
				CL	Silty clay with sand, light brown, moist, medium plasticity, stiff	

(Section continues downward)

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LOG OF BORING B-15/VW-8
ARCO Station 362
2990 Mission Boulevard
Hayward, California

PLATE
14

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
-22				CL	Silty clay with sand, light brown, moist, medium plasticity, stiff.	
-24						
S-25.5	5 8 9	24.1	SP-SC		Sand with clay, brown, damp, medium dense.	
-26				CL	Silty clay with sand, brown, moist, low to medium plasticity, very stiff.	
S-27.5	5 8 9	14.5				
-28					Total depth = 28-1/2 feet.	
-30						
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						

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PROJECT 60028.07

LOG OF BORING B-15/VW-8
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
15

ORIGINAL
File with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

Page ____ of ____
Owner's Well No. VW-9

Date Work Began 3/7/05, Ended 3/7/05

Local Permit Agency ACPW

Permit No. WOS-0098 Permit Date 2/2/05

GEOLOGIC LOG

DEPTH FROM SURFACE Ft. to Ft.	DRILLING METHOD	DESCRIPTION Describe material, grain size, color, etc.	FLUID	ORIENTATION (✓) VERTICAL HORIZONTAL ANGLE (SPECIFY)
				DEPTH FROM SURFACE Ft. to Ft.
<p><u>* PRESSURE GROUT w/PORLAND NEAT CEMENT</u></p>				

TOTAL DEPTH OF BORING 28.5 (Feet)
TOTAL DEPTH OF COMPLETED WELL 28.5 (Feet)

DWR USE ONLY - DO NOT FILL IN							
STATE WELL NO./STATION NO.							
LATITUDE				LONGITUDE			
APN/TRS/OTHER							

WELL OWNER

Name BP/4RCO C/D PAUL SUPPLE
Mailing Address 65 PO BOX 6539
CITY MORAGA STATE CA ZIP 94578

WELL LOCATION
Address 29900 MISSION BLVD
City HAYWARD
County ALAMEDA
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____
Latitude _____ NORTH Longitude _____ WEST
DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH

SEB
ATTACHED

EAST

SOUTH

ILLUSTRATE OR DESCRIBE DISTANCE OF WELL FROM ROADS, BUILDINGS, FENCES, RIVERS, ETC. AND ATTACH A MAP. USE ADDITIONAL PAPER IF NECESSARY. PLEASE BE ACCURATE & COMPLETE.

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

NEW WELL

MODIFICATION/REPAIR
— Deepen
— Other (Specify)

PLANNED USES (✓)

WATER SUPPLY
— Domestic — Public
— Irrigation — Industrial
MONITORING
TEST WELL
CATHODIC PROTECTION
HEAT EXCHANGE
DIRECT PUSH
INJECTION
VAPOR EXTRACTION
SPARGING
REMEDIATION
OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER NA (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S)					DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL			
		BANK	SCREEN	CON-	PIPE	MATERIAL / GRADE		INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	CEMENT
<p>SEB ATTACHED</p>											

ATTACHMENTS (✓)

- A Geologic Log
— Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analyses
X Other SITE MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME KEVIN UNO FOR GREGG DRILLING
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 90 HOWE RD
CITY MARTINEZ STATE CA ZIP 94533

Signed K. Uno WELL DRILLER/AUTHORIZED REPRESENTATIVE
DATE SIGNED 4/5/05 C-57 LICENSE NUMBER 405165

Depth of boring: 28-1/2 feet Diameter of boring: 10 inches Date drilled: 4/23/92
 Well depth: 28-1/2 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 8 to 28-1/2 feet Slot size: 0.10-inch
 Drilling Company: H.E.W. Drilling Inc. Driller: Casto
 Method Used: Hollow-Stem Auger Field Geologist: Lou Leet

Signature of Registered Professional:

Registration No.: CEG 1463

State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0						
2	S-2	3 5 7	585	SW-SC CL	Asphalt (4 inches). Gravelly sand with clay, brown, damp, medium dense: fill. Clay, trace silt, dark gray, damp, medium plasticity, stiff.	
4						
6	S-5.5	3 8 10	380	CL	Clay with sand, trace silt, dark gray-brown, moist, medium plasticity, very stiff.	
8						
10	S-10.5	3 3 7	>999	CL	Silty clay with sand, trace gravel up to 1 inch, brown, damp, low plasticity, stiff; product odor.	
12						
14						
16	S-15.5	11 13 17	>999	GC	Clayey gravel, trace sand, mottled green and gray, damp, dense.	
18						
20	S-20.5	5 9 12	>999	CL SM	Silty clay with gravel, brown, moist, medium plasticity, stiff. Silty sand with gravel up to 1 inch, brown, moist, medium dense	

(Section continues downward)

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Working to Restore Nature

PROJECT: 60028.07

LOG OF BORING B-16/VW-9
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
16

Depth	Sample No.	BLOWS	P.I.D.	USCS Code	Description	Well Const.
-22				SM	Silty sand with gravel, brown, moist, medium dense.	
-24						
S-25.5	4 8 9	>999		SC	Clayey sand with silt, brown, moist, medium dense; product odor.	
S-27.5	3 6 7	>999				
-28					Total depth = 28-1/2 feet.	
-30						
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						

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PROJECT 60028.07

LOG OF BORING B-16/VW-9
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
17

Depth of boring: 27-1/2 feet Diameter of boring: 8 inches Date drilled: 4/21/92
 Well depth: 26-1/2 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 8 to 26-1/2 feet Slot size: 0.10-inch
 Drilling Company: H.E.W. Drilling Inc. Driller: Casto
 Method Used: Hollow-Stem Auger Field Geologist: Lou Leet

Signature of Registered Professional:

Registration No.: CEG 1463

State: CA

Depth	Sample No.	Soil Bio	P.I.D.	USCS Code	Description	Well Const.
0				GW	Gravel up to 2 inches: backfill.	
2				CL	Clay, trace silt, dark gray, damp, low plasticity, stiff.	
4				CL	Silty clay, dark brown, moist, medium plasticity, very stiff.	
S-5.5	4 7 10		0			
6						
8						
10	S-10.5 4 5 6		4.3		With fine to medium sand and gravel up to 1/4 inch.	
12						
14						
16	S-15.5 7 14 17		6		Increasing fine to medium sand and gravel up to 1 inch very stiff.	
18						
20	S-20.5 8 9 10		9	GM	Silty gravel to 1/2 inch with sand, brown, damp, medium dense.	
				CL	Silty clay with sand, brown, damp to moist, medium plasticity, very stiff.	

(Section continues downward)

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LOG OF BORING B-17/VW-10
ARCO Station 362
2990 Mission Boulevard
Hayward, California

PLATE
18

PROJECT: 60028.07

Depth	Sample No.	BLOWS	P.I.D.	USCS Code	Description	Well Const.
-22				CL	Silty clay with sand, brown, damp to moist, medium plasticity, very stiff.	
-24						
-26	S-25.5	7 10 11	8	CL-CH	Clay with silt and gravel, brown, moist, medium to high plasticity, stiff.	
-28				▽	Total depth = 27-1/2 feet.	
-30				=		
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						

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LOG OF BORING B-17/VW-10
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
15

ORIGINAL
File with DWR

Page ____ of ____

Owner's Well No. VW-11

Date Work Began 3/7/05, Ended 3/7/05

Local Permit Agency ACPW

Permit No. WOS-0100

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. e023859

DWR USE ONLY — DO NOT FILL IN	
STATE WELL NO./STATION NO.	
LATITUDE	
LONGITUDE	
APN/TRS/OTHER	

GEOLOGIC LOG				
ORIENTATION (≤)	<input checked="" type="checkbox"/> VERTICAL	HORIZONTAL	ANGLE	(SPECIFY)
DEPTH FROM SURFACE	DRILLING METHOD	FLUID		
Ft. to Ft.	DESCRIPTION Describe material, grain size, color, etc.			
* PRESSURE GROUT IN/PORTLAND HEAT CEMENT				
West				
East				
South				
Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.				
WATER LEVEL & YIELD OF COMPLETED WELL				
DEPTH TO FIRST WATER <u>NA</u> (Ft.) BELOW SURFACE				
DEPTH OF STATIC				
WATER LEVEL _____ (Ft.) & DATE MEASURED _____				
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____				
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)				
* May not be representative of a well's long-term yield.				

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)					DEPTH FROM SURFACE	ANNULAR MATERIAL						
		TYPE (≤)	BLANK	SCREEN	CON-	DUCTOR		PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE	
Ft. to Ft.											CE- MENT (≤)	BEN- TONITE (≤)	FILL (≤)	FILTER PACK (TYPE/SIZE)
<i>SEE ATTACHED</i>														

ATTACHMENTS (≤)

- Geologic Log
 Well Construction Diagram
 Geophysical Log(s)
 Soil/Water Chemical Analyses
 Other SITE MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME <u>KEVIN UNO</u> For <u>GREGG DRILLING</u> (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)	ADDRESS <u>950 HOWE RD</u>	CITY <u>MARTINEZ</u>	STATE <u>CA</u>	ZIP <u>94533</u>
Signed <u>K. Uno</u>	WE, DRILLER/AUTHORIZED REPRESENTATIVE	DATE SIGNED <u>4/18/05</u>	C-57 LICENSE NUMBER <u>485165</u>	

Depth of boring: 29-1/2 feet Diameter of boring: 10 inches Date drilled: 4/24/92
 Well depth: 29 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 15 to 29 feet Slot size: 0.10-inch
 Drilling Company: H.E.W. Drilling Inc. Driller: Casto
 Method Used: Hollow-Stem Auger Field Geologist: Lou Leet

Signature of Registered Professional:

Registration No.: CEG 1463

State: CA

Depth	Sample No.	Soil Type	P.I.D.	USCS Code	Description	Well Const.
0					Asphalt (2 inches).	
2		SW-SC		CL	Gravelly sand with clay, brown, damp, medium dense; fill.	
4					Clay, trace silt, dark gray, damp, low plasticity, stiff.	
6	S-5.5 4 6 10		0	CL	Silty clay, trace sand, dark brown, moist, medium plasticity, stiff.	
8						
10	S-10.5 3 4 6		0	SC	Clayey sand with silt and gravel up to 1 inch, brown, moist, medium dense.	
12						
14						
16	S-15.5 3 7 11		0		Color change to red-brown.	
18						
20	S-20.5 4 7 5		17	CL	Sandy clay with silt, light brown-gray, moist, low to medium plasticity, stiff.	

(Section continues downward)

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LOG OF BORING B-19/VW-11
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
22

Depth	Sample No.	SWL	P.I.D.	USCS Code	Description	Well Const.
-22				CL	Sandy clay with silt, light brown-gray, moist, low to medium plasticity, very stiff.	
-24						
S-25.5	5 10 11	208	CL	Silty clay with sand, gray-brown, moist, medium plasticity, very stiff; product odor.		
-26						
S-27.5	4 5 8	351				
-28						
-30					Total depth = 29-1/2 feet.	
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						

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PROJECT 60028.07

LOG OF BORING B-19/VW-11
ARCO Station 362
29900 Mission Boulevard
Hayward, California

PLATE
23

